:	Application No. Applicant(s)		
Notice of Allowability	0/660,508 YANG ET AL.		
	Examiner	Art Unit	
	Arnold Castro	3747	
The MAILING DATE of this communication appearable claims being allowable, PROSECUTION ON THE MERITS IS (wherewith (or previously mailed), a Notice of Allowance (PTOL-85) of NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RICE of the Office or upon petition by the applicant. See 37 CFR 1.313	OR REMAINS) CLOSED in other appropriate commedities. This application is	n this application. If not include nunication will be mailed in due	ed course. THIS
1. This communication is responsive to			
2. ⊠ The allowed claim(s) is/are <u>1-18</u> .			
3. $igotimes$ The drawings filed on <u>12 September 2003</u> are accepted by the second s	the Examiner.		
4. Acknowledgment is made of a claim for foreign priority und a) All b) Some* c) None of the:  1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 1. Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" onoted below. Failure to timely comply will result in ABANDONME THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which gives 6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftsperson 1) hereto or 2) to Paper No./Mail Date  (b) including changes required by the attached Examiner's Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the certain process.	been received. been received in Application uments have been received if this communication to file ENT of this application.  ted. Note the attached EX is reason(s) why the oath of be submitted. on's Patent Drawing Revie  Amendment / Comment of the header according to 37 C it of BIOLOGICAL MAT	on No  ed in this national stage applicated in this national stage applicated in this national stage applicated in the restaurance of the drawings in the front (not the FR 1.121(d).  ERIAL must be submitted.	quirements NOTICE OF
<ul> <li>Attachment(s)</li> <li>1.  Notice of References Cited (PTO-892)</li> <li>2.  Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3.  Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 03172004</li> <li>4.  Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	6. ☐ Interview S Paper No. 7. ☐ Examiner's	nformal Patent Application (PT Summary (PTO-413), ./Mail Date s Amendment/Comment s Statement of Reasons for All Henry C. Yuen Supervisory Patent Exam Group 3700	owance

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## **DETAILED ACTION**

The following is an examiner's statement of reasons for allowance:

Claim 1 contains limitation of a method of providing exhaust gas recirculation (EGR) in a multi-cylinder engine method comprising the steps of: imparting motion to a valve actuator, actuating the engine valve of a first engine cylinder responsive to the imparted motion, determining a first and a second engine parameter level, modifying the imparted motion responsive to the level of the first engine parameter level and the second engine parameter level to produce an exhaust gas recirculation event. The prior art did not disclose such modifying of imparted motion based on two engine parameters.

Claim 13 claims a system comprising an EGR housing disposed on the engine housing, said EGR housing having an hydraulic passage formed therein, means for actuating the engine valve of a first engine cylinder, means for imparting motion to said valve actuation means; and means for modifying the motion imparted to said valve actuation means to produce an EGR event having an early valve closing time. The prior art did not disclose such as system producing an EGR event having an early valve closing time.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arnold Castro whose telephone number is (703) 305-0039. The examiner can normally be reached on 7:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yuen Henry can be reached on (703) 308-1946. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Arnold Castro Examiner Art Unit 3747